ABSTRACT

[1145]   Techniques to test performance of terminals and access points in CDMA data (e.g., cdma2000) systems. A framework of protocols and messages is provided to support systematic performance testing of terminals and to ensure interface compatibility. The framework comprises a Forward Test Application Protocol (FTAP) for testing forward channels and a Reverse Test Application Protocol (RTAP) for testing reverse channels. Techniques are also provided to (1) test different types of channels (e.g., traffic channels as well as auxiliary channels), (2) test bursty data transmissions, (3) support "persistence" testing (i.e., continued testing over connection and disconnection), (4) force the settings of certain auxiliary channels (e.g., so that the error rate of the channels may be determined), and (5) collect, log, and report various statistics that may be used to derive performance metrics such as throughput and packet error rate.